

Application of U.S. Strategic Roadmap ... and How the North American 3R's Collaborative May Help

SCIENTIFIC ADVISORY COMMITTEE ON ALTERNATIVE TOXICOLOGICAL METHODS

National Institutes of Health, Bethesda, MD

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THE NORTH AMERICAN 3Rs COLLABORATIVE

REFINE. REDUCE. REPLACE.

3Rs Organizations in NA Can Help – Refinement & Communication

- Roadmap is heavy on Reduction and Replacement, but what about Refinement?



- Strategic Road Map Outline - “Develop mechanisms to improve communication between end-users and researchers.”



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INTERNATIONAL CONSORTIUM *for*
INNOVATION & QUALITY
in PHARMACEUTICAL DEVELOPMENT



Microphysiologic Systems

Reproducibility, Endpoints,
& Technology

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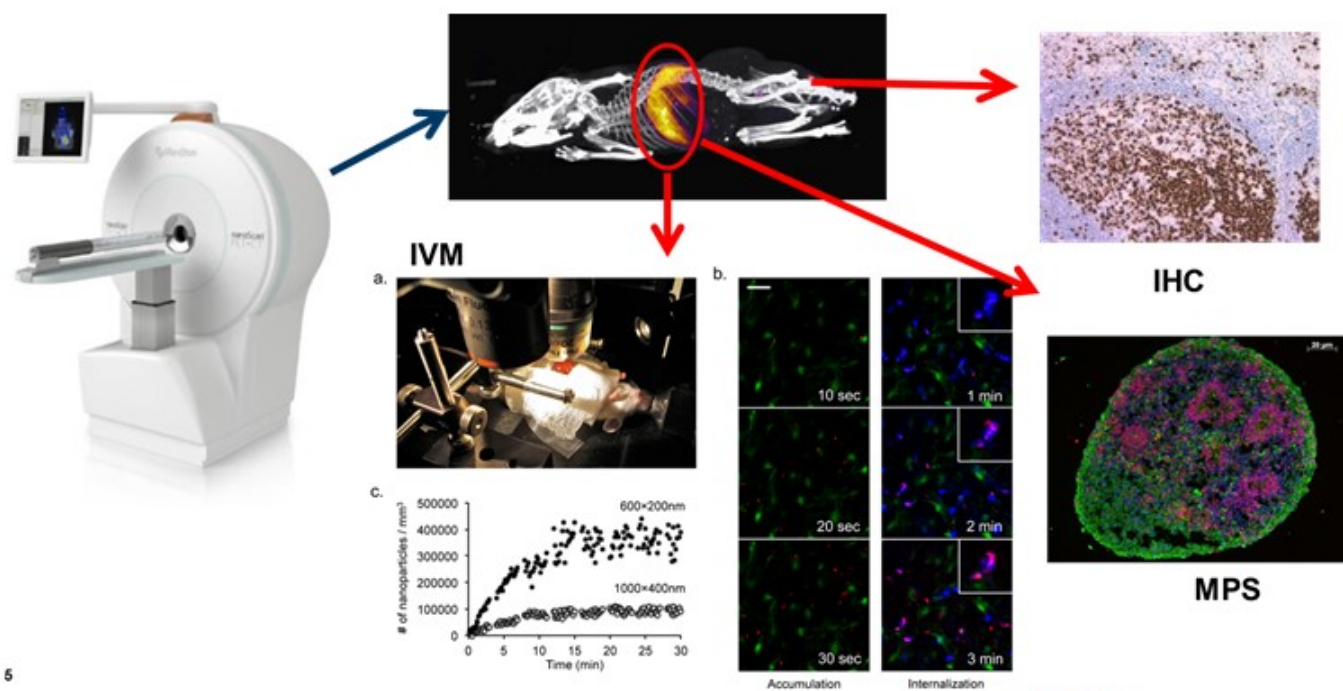
REFINE. REDUCE. REPLACE.

Refinement's Place in the Roadmap to New Approaches in Toxicology Research and Studies

- Depression / Morbidity / Death
- Clinical Pathology (Liver Enzymes, Renal Chemistry, Hematology)
- Limited Physiologic Parameters (EKG, Ophthalmology)
- Better or Surrogate Endpoints = Refinement
 - Biomarkers
 - Behavior
 - Physiology



New Approaches In Toxicology



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Strategic Road Map Outline

“Develop mechanisms to improve communication between end-users and researchers.”



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ADVANCING SCIENCE, INNOVATION AND WELFARE THROUGH SHARING

What is the NA3RsC?

- **Mission/Statement of Purpose**

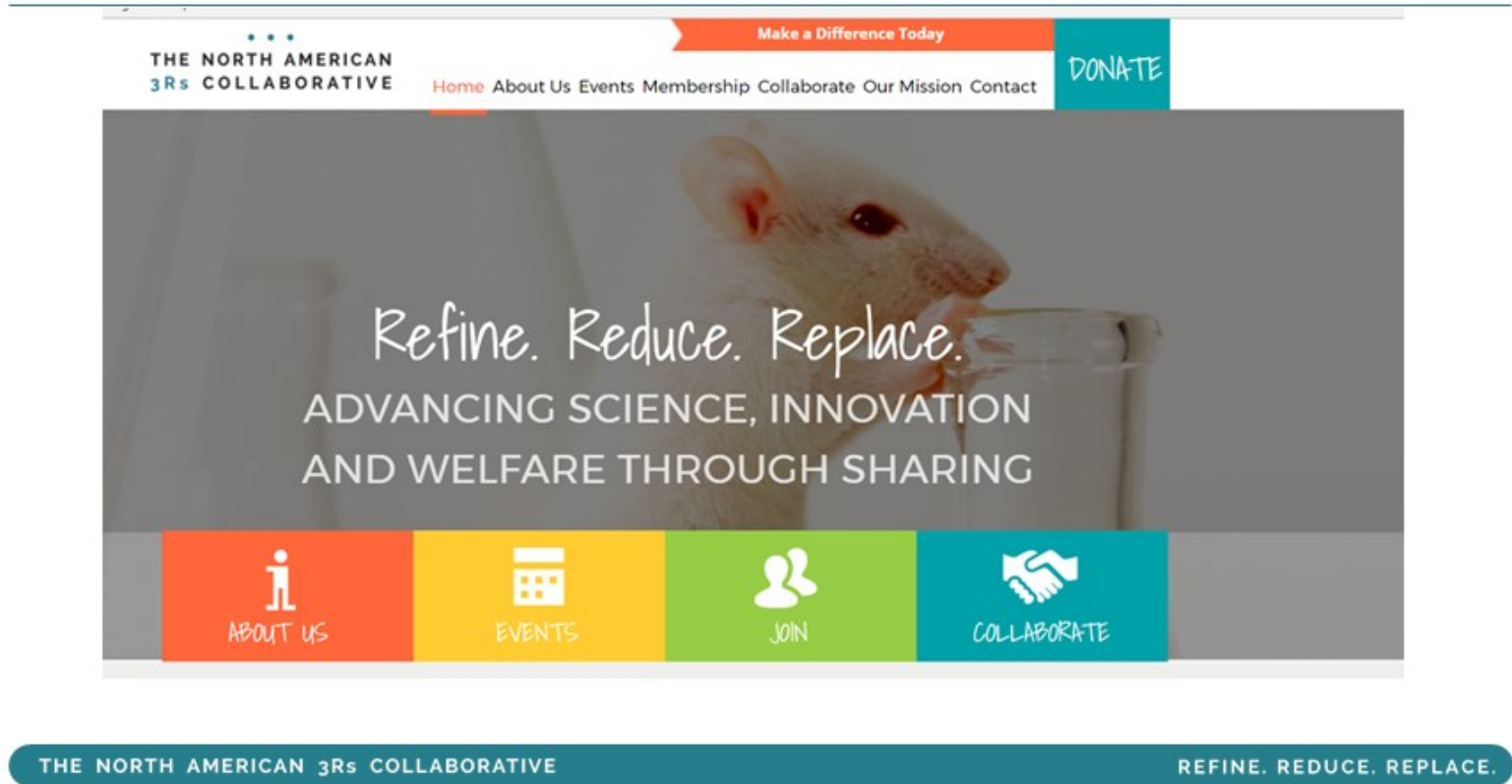
- The mission of the NA3RsC is to advance the science of the 3Rs – replacing, reducing and refining the use of animals in research.
- Our strategy includes:
 - Raising awareness of current 3Rs technologies and approaches
 - Fostering networks and collaborations focused on the 3Rs
 - Acting as a clearinghouse for information on the 3Rs
- To do this we work across the scientific community with researchers from academia and industry, veterinarians and animal care staff, policy makers, regulators and funders.

Collaborative not Competitive!

Building a virtual 3Rs community...

- **A Dynamic, Interactive, and Evolving Community**
 - Theater to present educational symposiums live
 - 3Rs community pavilion
 - (a resource hub / portal to all North American 3Rs communities who participate)
 - Links to useful information
 - Platform to discuss and solve topical issues

Website



Virtual Education Community

REFINE.

REDUCE.

REPLACE.

Home

Registration

About Us

About VEC

New User?

Register Now

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NA3RsC Virtual Educational Community

Welcome to the NA3RsC's Virtual Educational Community (VEC)!!!

The VEC serves as a virtual location for communication, sharing of information and community conversation about 3Rs.


We are looking forward to your participation.


Event Registration


To start registration, please enter your details below and click Continue.


Email


VEC includes:

Community Pavilion

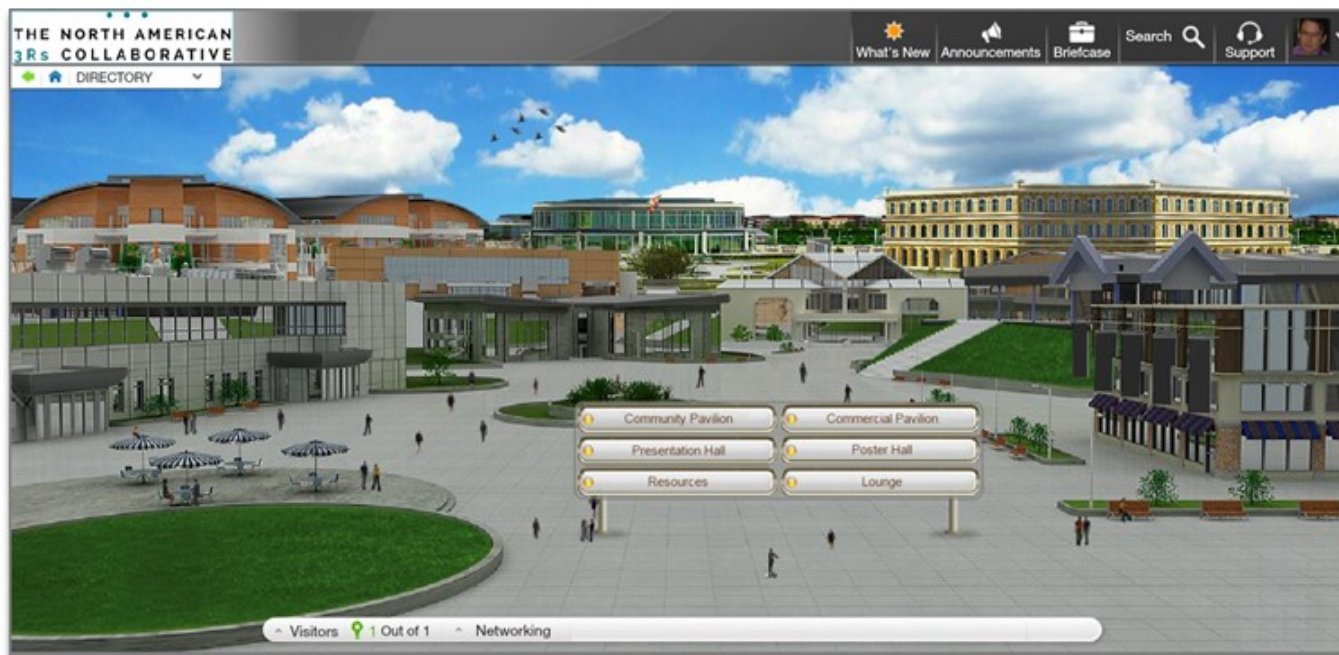
Poster Hall

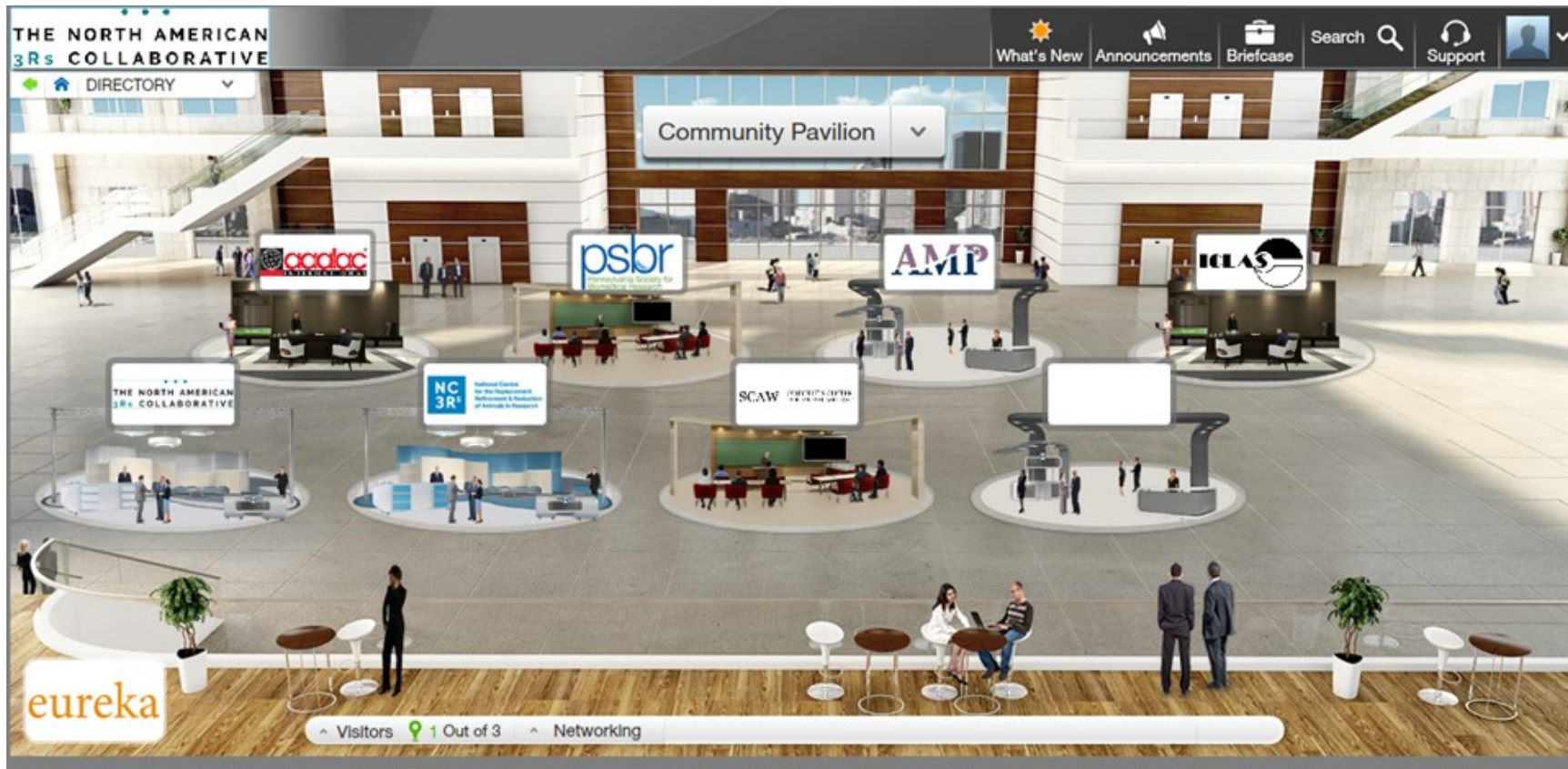
Presentation Hall

Resource Hall

Discussion Lounge

Welcome to our community...





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Poster Hall

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Replacement

Refinement

Development of a Vapor Cup Dosing Method for Evaluation of EpiAirway
234KB

Tissue Engineered In Vitro Human Airway Models
2297KB

An In Vitro Human Airway Model for Toxicity and Drug Delivery Screening
164KB

Reconstructed human corneal skinethic HCE test method for eye irritation testing
1402KB

Evaluation of in silico modelling for endpoints of toxicological relevance
633KB

Ocular Irritation Risk Assessments Using In Vitro BCOP
635KB

MucilAir™ an In Vitro Model for Assessment of Human Airway Toxicity
1578KB

eureka

Visitors

1 Out of 1

Networking

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Presentation Hall

▼ Literature


Refinement

Reduction

Replacement

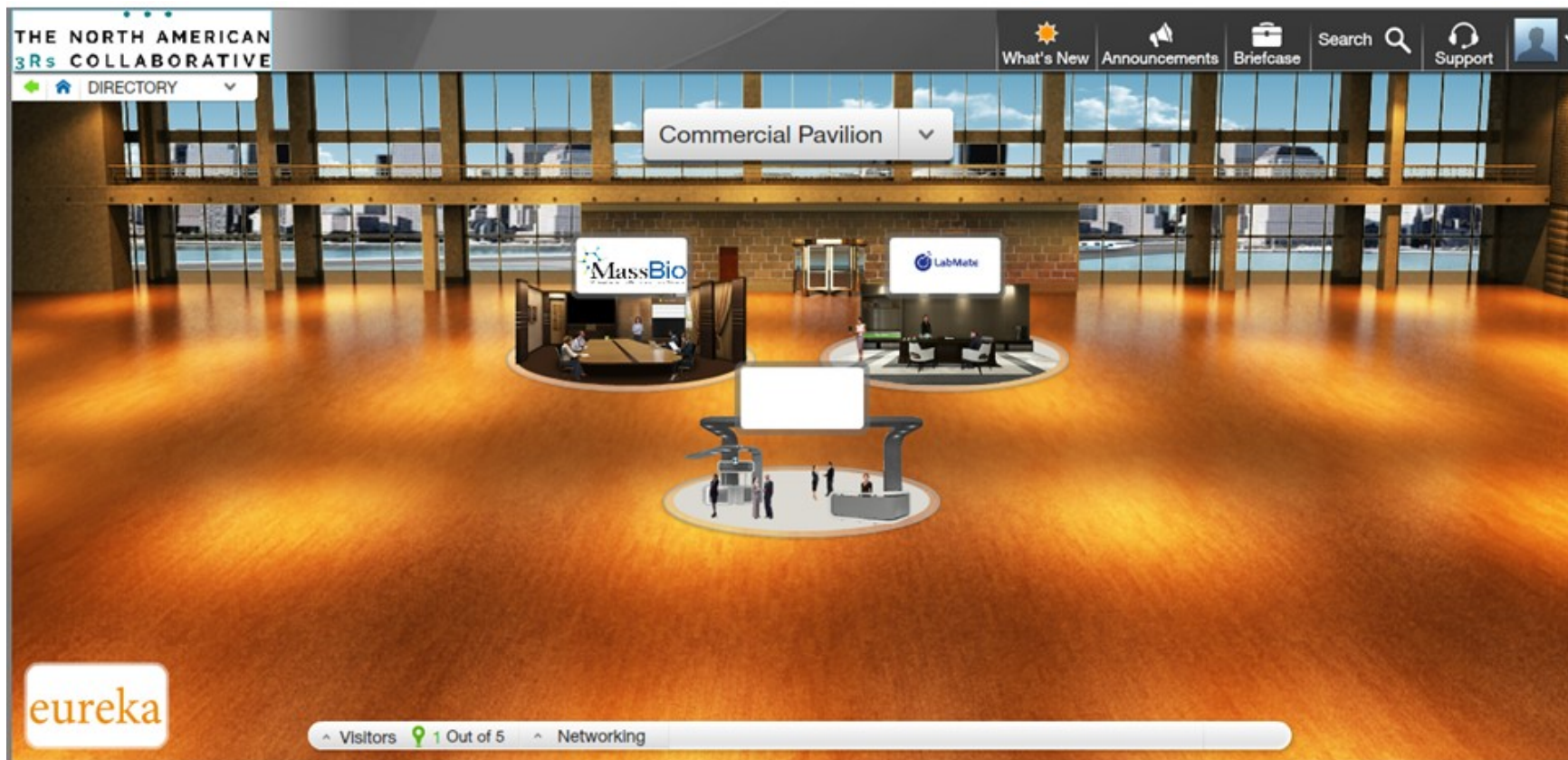
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Presentation 3



Visitors 1 Out of 3

Networking



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<http://www.na3rsc.org/>

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